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```
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(face or facial or nose or
eyes or mouth or lips)and
(neutral or non <near/5>
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(detect or determine)and (face or facial or nose or eyes) Search

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1 **Recognizing facial actions using Gabor wavelets with neutral face average difference**
Bazzo, J.J.; Lamar, M.V.;
Automatic Face and Gesture Recognition, 2004. Proceedings. Sixth IEEE International Conference on , 17-19 May 2004
Pages:505 - 510

[Abstract] [PDF Full-Text (1478 KB)] **IEEE CNF**

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2 **A feature space for face image processing**
Qing Song; Robinson, J.;
Pattern Recognition, 2000. Proceedings. 15th International Conference on , Volume: 2 , 3-7 Sept 2000
Pages:97 - 100 vol.2

[Abstract] [PDF Full-Text (864 KB)] **IEEE CNF**

A feature space for face image processing

Qing Song Robinson, J.
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This paper appears in: **Pattern Recognition, 2000. Proceedings. 15th Int Conference on**

Meeting Date: 09/03/2000 - 09/07/2000
Publication Date: 3-7 Sept 2000
Location: Barcelona Spain
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Number of Pages: 4 vol(xxxi+1134+xxxiii+1072+1152+xxix+881)
Inspec Accession Number: 6887413

Abstract:
We propose criteria for a feature space for **face** image processing and a meth generating such a space. Beginning with many input dimensions, including de vectors (obtained through optical flow analysis between an input image and a template) and deformation residues, we apply principal components analysis **classification** criterion to derive a feature space. We demonstrate **classifica** important tasks-**face detection** and expression analysis-in each case using o linear discriminant, thereby demonstrating that the feature space fulfils a rest version of the criteria

Index Terms:
face recognition image **classification** image sequences principal component analy **classification** criterion deformation residues deformation vectors expression analys **detection** **face** image processing feature space linear discriminant optical flow an

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Recognizing facial actions using Gabor wavelets wit neutral face average difference

Bazzo, J.J. Lamar, M.V.
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This paper appears in: **Automatic Face and Gesture Recognition, 2004. Proceedings. Sixth IEEE International Conference on**

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Abstract:
This work describes a new pre-processing step to classify **facial** expression. F works suggest that Gabor wavelets applied to recognize **facial** expression ima subtracted from **neutral face** from the same subject could achieve good recc under controlled condition as eye and month alignment. We propose a recogn system where the Gabor kernels are applied on **facial** expression subtracted averaged **neutral face**. A fast pre-processing technique that generates a sma dimension output data is also proposed. A correct recognition rate of 86.6% i in a 7 upper **face** actions and 81.6% in a 7 lower **face** actions **detection** pro a neural network based classifier. The performance is evaluated in a heteroge subject database with head motion and lighting variations.

Index Terms:
emotion recognition **face** recognition neural nets principal component analysis wav transforms Gabor wavelets **facial** action recognition **facial** expression **classificatior** motion heterogeneous subject database neural network based classifier **neutral fac** difference

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